

# KeyPlast RESIST™












HIGH PERFORMANCE COLORANTS FOR  
ENGINEERING POLYMERS

Milliken continues to support customers meeting ever-increasing market requirements. The following list of products represent high performance colorants for Engineering Polymers such as Polyamide, PolySulfone, and other high heat polymers and alloys. Milliken recommends testing in your specific system, and under your conditions.

Polyamide resins, also known as Nylon, are polymers often chosen for their ability to withstand elevated or extremely low service temperatures without loss of physical properties. They are used in demanding applications like power tools, automotive parts, gears, and appliance parts. The combination of high processing temperatures and amines present in Nylon polymers make most traditional colorants unsuitable for use.

Milliken offers the following selection of colorants that are known to be stable in most compounds of Nylon 6, Nylon 6,6, glass-filled compounds as well as other Polyamide resins.

- Highly recommended
- Recommended
- Suitable
- Process dependent
- Not recommended

Product Name	Thermal Stability	Process Stability	Lightfastness Tint	PA 6 (Nylon 6)	PA 66 (Nylon 66)	PA 6 & PA 66 Glass Filled	PA 6 & PA 66 Flame Retardant	PA 46 (Nylon 46)	PBT Poly Butylene Terephthalate Unfilled & Glass Filled	PPA (Poliphthalamide)	PSU (Polysulfone)
KeyPlast RESIST FL Orange 9171 	320°C	Very good	4	●	●	●	●	●	●	○	○
KeyPlast RESIST Orange 9185 	315°C	Very good	6	●	●	●	●	●	●	○	○
KeyPlast RESIST Red 9082 	335°C	Very good	5	●	●	●	●	●	●	○	○
KeyPlast RESIST Red 9995 	320°C	Excellent	7	●	●	●	●	●	●	●	●
KeyPlast RESIST Red 8382 	310°C	Good	5	●	●	●	●	○	●	○	○
KeyPlast RESIST Red 9179 	335°C	Very good	5	●	●	●	●	●	●	●	●
KeyPlast RESIST Yellow 9785 	325°C	Excellent	6	●	●	●	●	●	●	○	○
KeyPlast RESIST Yellow 9882 	335°C	Excellent	5	●	●	●	●	●	●	●	●
KeyPlast RESIST FL Yellow Green 9187 	320°C	Very good	6	●	●	●	●	●	●	○	○
KeyPlast RESIST Green 9687 	310°C	Excellent	6	●	●	●	●	○	●	○	○
KeyPlast RESIST Blue 9778 	300°C	Excellent	5	●	●	●	●	○	●	○	○
KeyPlast Nigrosine TR 	300°C	Very good	6	●	●	●	●	○	●	○	○